

What is claimed is:

1        1. A biodegradable and bioactive composite material for surgical  
2        osteosynthesis applications comprising: at least one resorbable polymeric matrix  
3        component, at least one resorbable polymeric reinforcing element, and at least one  
4        ceramic reinforcing element.

*W/cont  
4/24-4/26  
All (6/15)*

1        2. A method of manufacturing a biodegradable composite according to  
2        claim 1, comprising the steps of:  
3              a) selecting at least one first polymer for the matrix;  
4              b) selecting at least one bioceramic for use as the ceramic reinforcing  
5        element;  
6              c) mixing said first polymer and said bioceramic together to form a  
7        mixture;  
8              d) selecting at least one second polymer in a fiber form;  
9              e) placing said second polymer into a desired formation;  
10          f) combining said mixture of step (c) and said formation of step (e) to  
11        yield a second mixture; and  
12          g) subjecting the second mixture of step (f) to heat or pressure.

*Suff.  
Add  
Sect. 102*

*Add  
a2*